

Remarks

Claims were rearranged into 2 independent claims 1 & 2, with claim 1 being dedicated to a variable orifice fuel injector with a circular ring aperture (4) and closed channels (6) underneath the nozzle tip conical surface (C), and claim 2 being dedicated to a variable orifice fuel injector with a circular ring aperture and open channels on the nozzle tip conical surface (C). Revisions of claim 1 & 2 have incorporated the examiner's interview comments on June 7th, 2011.

Revision of claim 1 shall overcome the Date Reference, JP10-299613. The Date Reference does not have the conical surface (C) at nozzle tip as the 10/597000 application does, at the same time, the Date Reference has a cylinder part 33 while the 10/597000 application does not. These fundamental differences make two distinctive injectors with distinctive spray pattern sequences, as discussed in previous response dated May 22nd, 2011.

The revised claim 1 shall also overcome the Simmons Reference, U.S. Patent #3,042,317, since the Simmons Reference simply does not have multijet channels, it does not produce jets with variable spray patterns.

Claims 3-6, 8, 11-12, 14-16, 18 were revised to become single dependent claims of claim 1;

Claims 13, 17, 19-23 were cancelled.

No new matter is added, rather than rearrange the contents previously presented.

Respectfully submitted,

/Deyang Hou/

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